



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School : Engineering **Program:** B.Tech Biotechnology

Course: Clinical Biochemistry **Course Code:** BTE306

Semester: V **Max Marks:** 50 **Duration (mins) :** 120 min

Note: Answer any 5 questions.

- Q1. With an appropriate diagram summarise the activity of insulin signaling pathways in cell. (10)
- Q2. Draw and scribe the components of the Hormone Receptor-G Protein effector system. (10)
- Q3. What is BMR? What are the factors affecting BMR? Write a note on Kwashiorkor. (10)
- Q4. Explain the biochemical changes in Diabetes Mellitus in details. (10)
- Q5. Explain the role of glucose tolerance test in diagnosis of Diabetes mellitus. (10)
- Q6. Describe in details the different liver function tests. (10)
- Q7. Write a note on inborn errors of metabolism. What are the detection methods of prenatal and neonatal inborn errors of metabolism. (10)
- Q8. What is the basis of blood detection of Na^+ ? Describe the pathological changes in ionic imbalance. (10)
- Q9. Describe the clinical significance of lipid metabolism in human body. (10)
- Q10. A patient is suffering from myocardial infarction. How can blood tests confirm a heart attack? Explain in detail. (10)